



Charging at Scale

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Project Background

- Historical EV Situation
 - Free charging to employees
 - # of chargers limited by infrastructure costs to add more.
 - 50+ employees with EVs developed an app to manage charger availability and a dedicated Slack channel to communicate with one another, moving cars in and out of spots hourly.
- 2019 New Building Lease
 - Parking Garage built with (29) Level 2 Chargers (Clipper Creek)
 - Growing number of EV Employees concerned - one suggests PowerFlex...

PowerFlex Assessment

- With load management, the existing 600A, 277Y/480VAC panel could support over (100) Level 2 chargers and (1) DC charger.
 - Minimal Cost with Turnkey Install
 - BAQMD grants offset 100% of infrastructure costs
 - LCFS credits offset monthly service fees
 - Added Demand Control
 - Enables energy management = lower cost charging
 - Enables guaranteed charge rules ~ 50 miles/day minimum
 - Provides app with notifications, and comprehensive site dashboard
 - Reduce “Re-parking” lost productivity

Project Scope

- In Existing Panels
 - Replace (29) existing 40A chargers w/40A universal chargers
 - (21) new 40A chargers and (2) LMCs
 - (1) DC Fast charger (100A/3P)
- New Equipment
 - (1) 150kVA Transformer
 - (3) Panels (400A, (2) 225A)
 - (52) additional chargers and (1) LMC
 - (1) CT

Project Results

For minimum costs, we increased our charging capacity by 3.5x, added DCFC, enabled energy management, and received recognition from SVCE for an innovative solution.

